

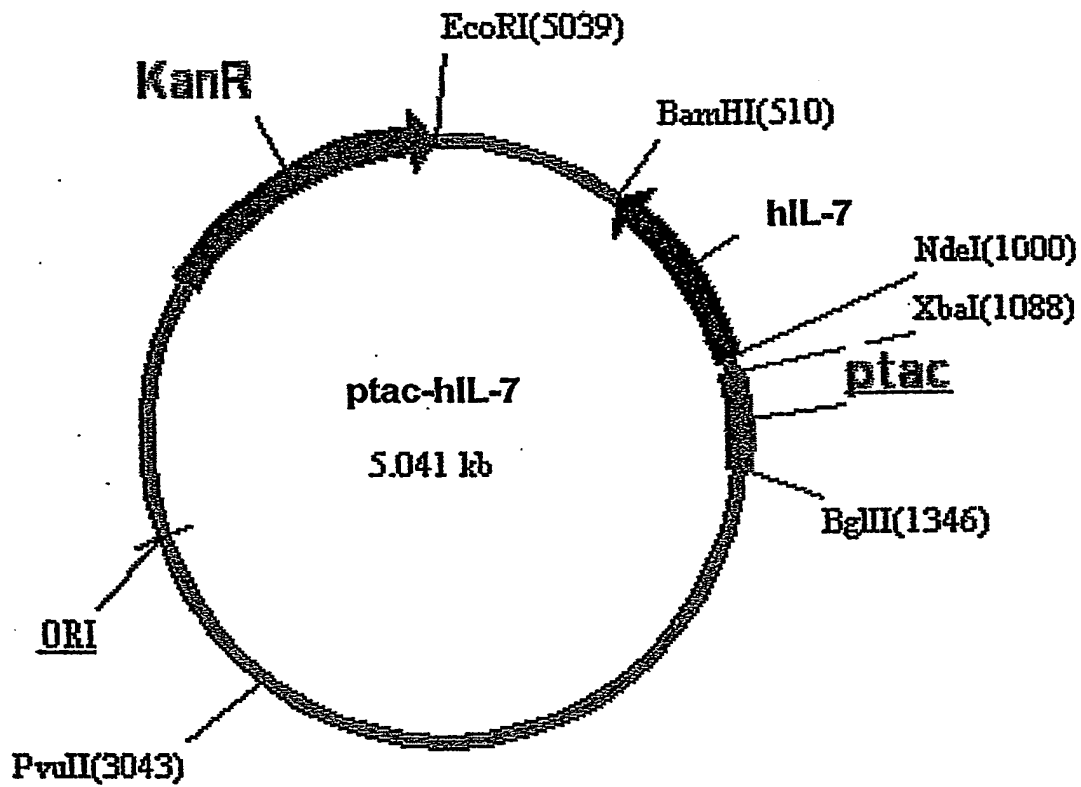
1/18

Figure 1

2/18

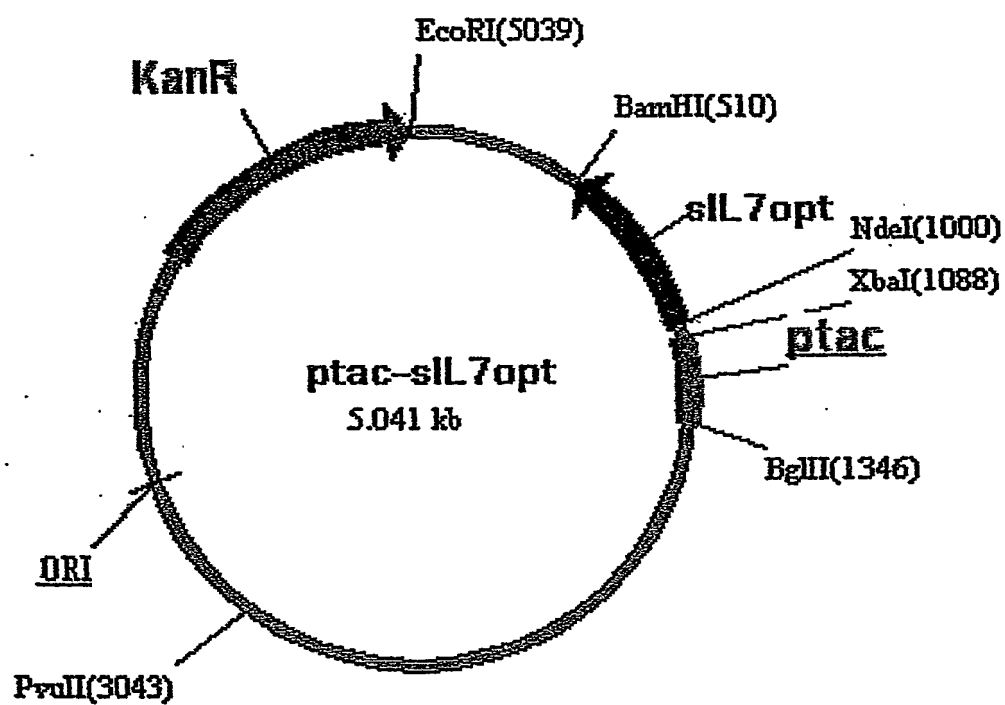


Figure 2

3/18

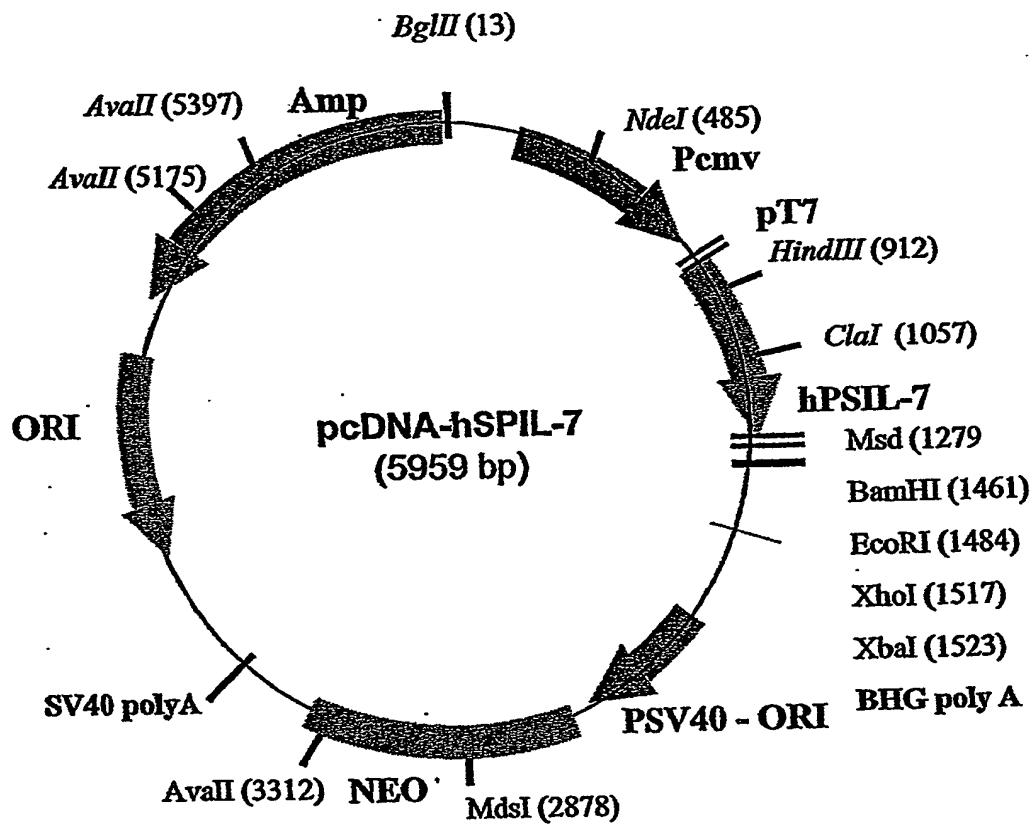


Figure 3

4/18

Lalign output for human IL7 vs. monkey IL7 cDNA

98.1%

 identity in 534 nt overlap; score: 2580 E(10,000): 3.3e-207

human	10	20	30	40	50	60
	<u>ATGTTCCATGTTTCTTTAGGTATATCTTTGGACTTCCTCCCCTGATCCTTGTTCTGTTG</u>					
monkey	<u>ATGTTCCATGTTTCTTTAGGTATATCTTTGGACTTCCTCCCCTGATCCTTGTTCTGTTG</u>					
human	70	80	90	100	110	120
	CCAGTAGCATCATCTGATTGTGATATTGAAGGTAAGATGGCAAACAATATGAGAGTGTT					
monkey	CCAGTAGCATCATCTGATTGTGATATTGAAGGTAAGATGGCAAACAATATGAGAGTGTT					
human	130	140	150	160	170	180
	CTAATGGTCAGCATCGATCAATTATTGGACAGCATGAAAGAAATTGGTAGCAATTGCCTG					
monkey	CTAATGGTCAGCATCGATCAATTATTGGACAGCATGAAAGAAATTGGTAGCAATTGCCTG					
human	190	200	210	220	230	240
	AATAATGAATTTAACTTTTTTAAAAGACATATCTGTGATGCTAATAAGGAAGGTATGTTT					
monkey	AATAATGAATTTAACTTTTTTAAAAGACATCTA TGTGATGATAATAAGGAAGGTATGTTT					
human	250	260	270	280	290	300
	TTATTCCGTGCTGCTCGCAAGTTGAGGCAATTTCTTAAAATGAATAGCACTGGTGATTTT					
monkey	TTATTCCGTGCTGCTCGCAAGTTGAGGCAATTTCTTAAAATGAATAGCACTGGTGATTTT					
human	310	320	330	340	350	360
	GATCTCCACTTATTTAAAAGTTTCAGAAGGCACAACAATACTGTTGAACTGCACTGGCCAG					
monkey	GATCTCCACTTATTTAAAAGTTTCAGAAGGCACAACAATACTGTTGAACTGCACCGGCAAG					
human	370	380	390	400	410	420
	GTTAAAGGAAGAAAACCAGCTGCCCTGGGTGAAGCCCAACCAACAAAGAGTTTGGAAGAA					
monkey	GTTAAAGGAAGAAAACCAGCTGCCCTGGGTGAACCCCAACCAACAAAGAGTTTGGAAGAA					
human	430	440	450	460	470	480
	AATAAATCTTTAAAGGAACAGAAAAAACTGAATGACTTGTGTTTCCTAAAGAGACTATTA					
monkey	AATAAATCTTTAAAGGAACAGAAAAAACTGAATGACTCATGTTTCCTAAAGAGACTACTA					
human	490	500	510	520	530	
	<u>CAAGAGATAAAAACTTGTGGAATAAAATTTTATGTTGGGCACTAAAGAACACTGA</u>					
monkey	<u>CAAA AGATAAAAACTTGTGGAATAAAATTTTATGTTGGGCACTAAAGAACACTGA</u>					

Figure 4

5/18

Comparison of :

(A) /tmp/www-sib/lalign.17549.1.seq sp|P13232|
IL7_HUMAN (IL7)INTERLEUKIN-7 PRECURSOR - 177 AA
(B) /tmp/www-sib/lalign.17549.2.
SEQUENCE MONKEY IL7 PRECURSOR - 177 AA

96.6% identity in 177 aa overlap; score: 1144 E(10,000): 1.3e-95

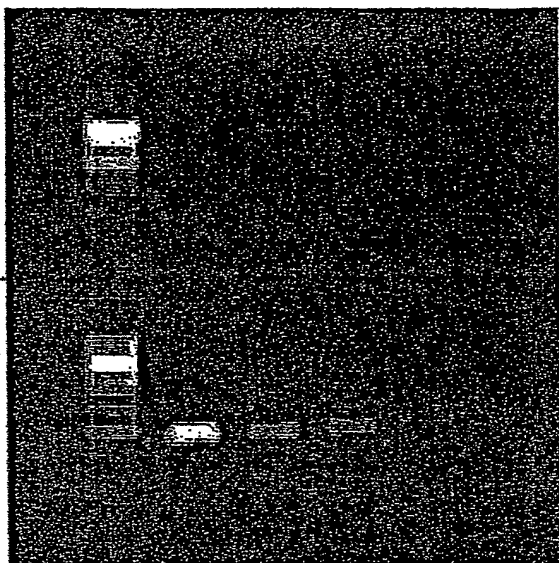
human MFHVSFRYIFGLPPLILVLLPVASSDCDIEGKDGGKQYESVLMVSIQQLDSMKEIGSNCL
monkey MFHVSFRYIFGLPPLILVLLPVASSDCDIEGKDGGKQYESVLMVSIQQLDSMKEIGSNCL

human NNEFNFFKRHICDANKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQ
monkey NNEFNFFKRHLCDNKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGK

human VKGRKPAALGEAQPPTSLEENKSLKEQKKLNDLCFLKRLQEIKTWCWNKILMGTKEH
monkey VKGRKPAALGEPQPPTSLEENKSLKEQKKLNDSCFLKRLQKIKTCWNKILMGTKEH

Figure 5

6/18



← Simian IL-7 PCR products

Figure 6

7/18

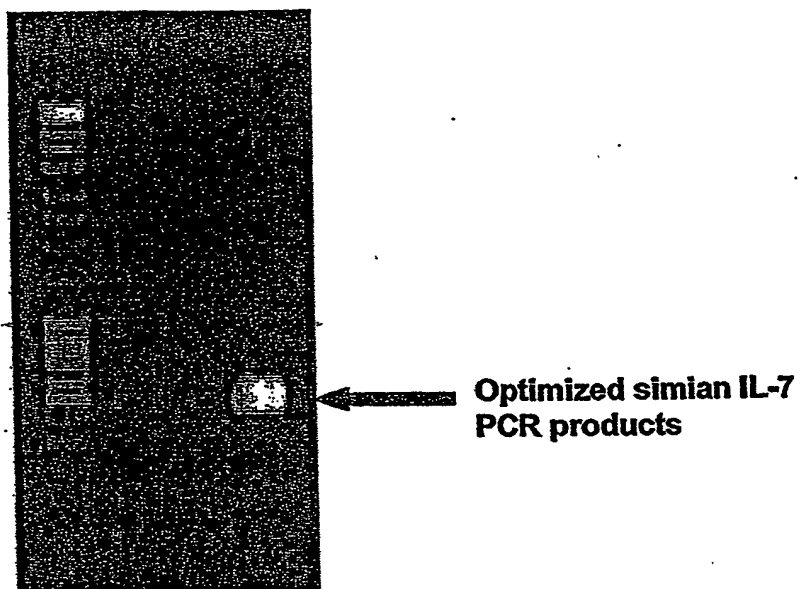


Figure 7

8/18

Human PS-IL-7
PCR product

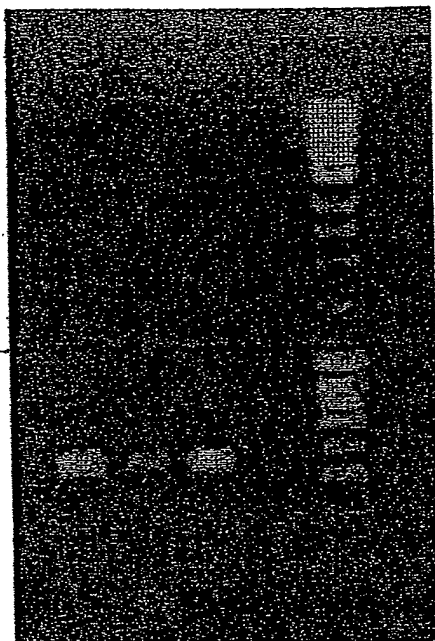
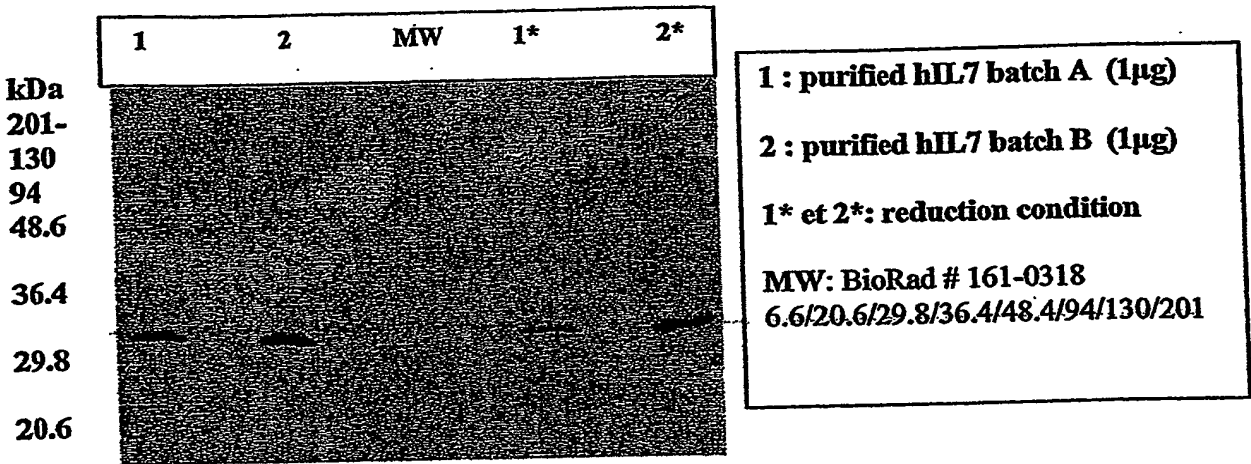


Figure 8

9/18

SDS-PAGE Coomassie Blue staining 15%



SDS-PAGE Silver staining 15%

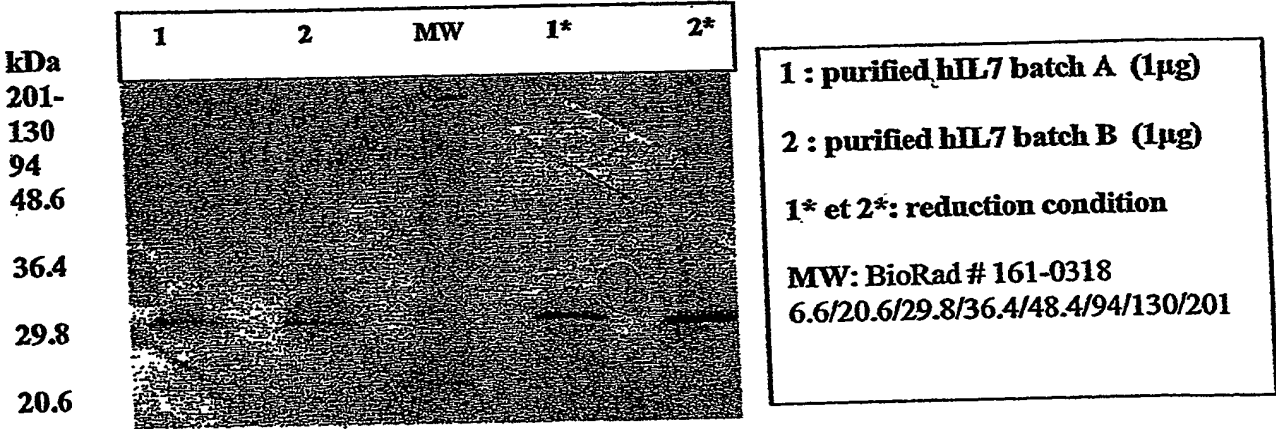


Figure 9

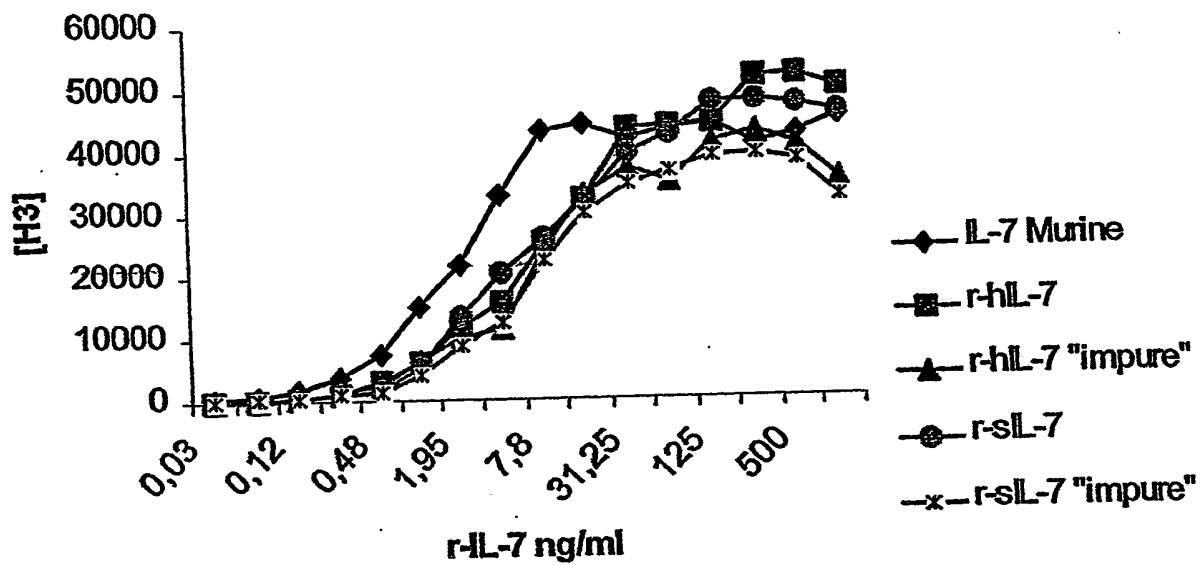
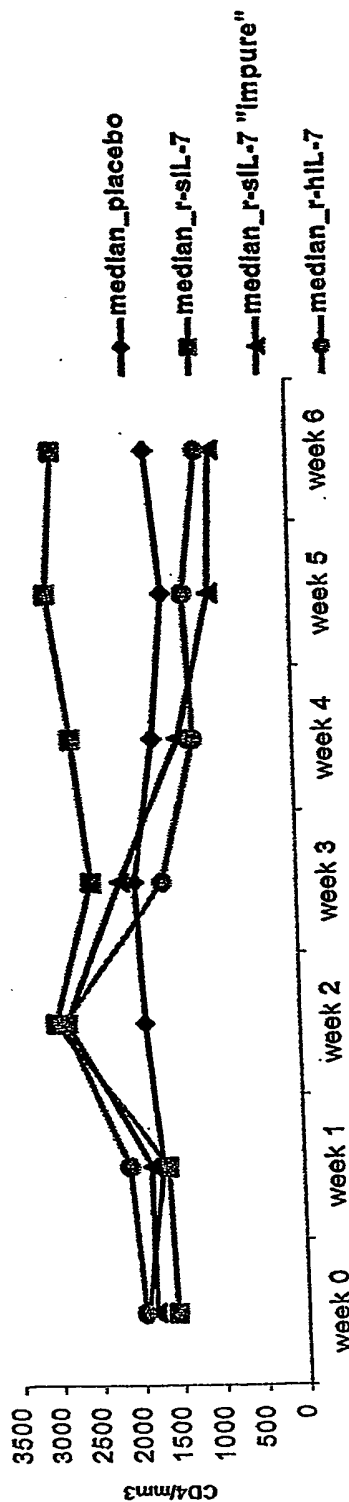
10/18**Thymidine Assay with the PB-1 Cell Line**

Figure 10

11/16

In vivo effects of r-IL-7 on CD4 T cell count in normal non human primates model

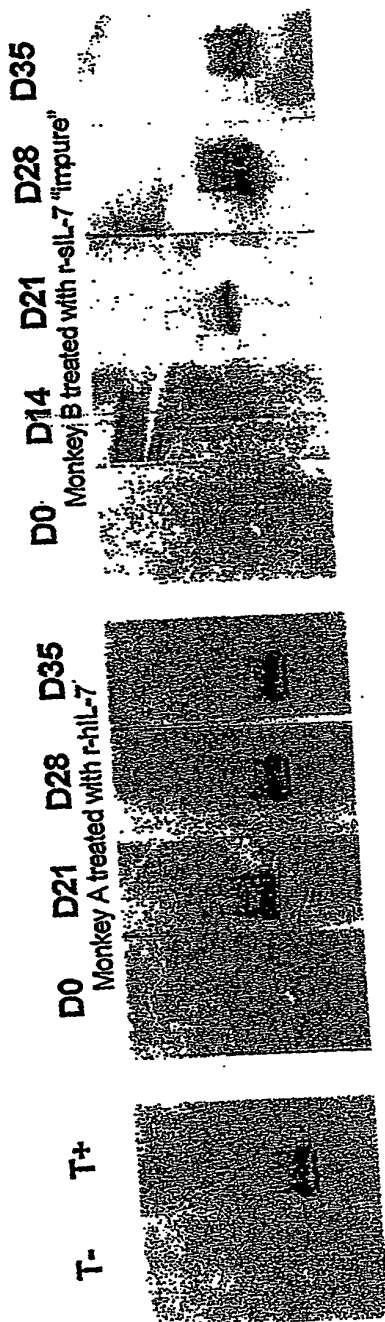


r-IL-7 Treatment

Figure 11

12/18

Western Blot analysis of IL-7-treated monkeys sera for the detection of anti-IL-7 antibodies



* Monkeys treated with r-sIL-7 remain negative up to day 35 (data not shown)

Figure 12

13/18

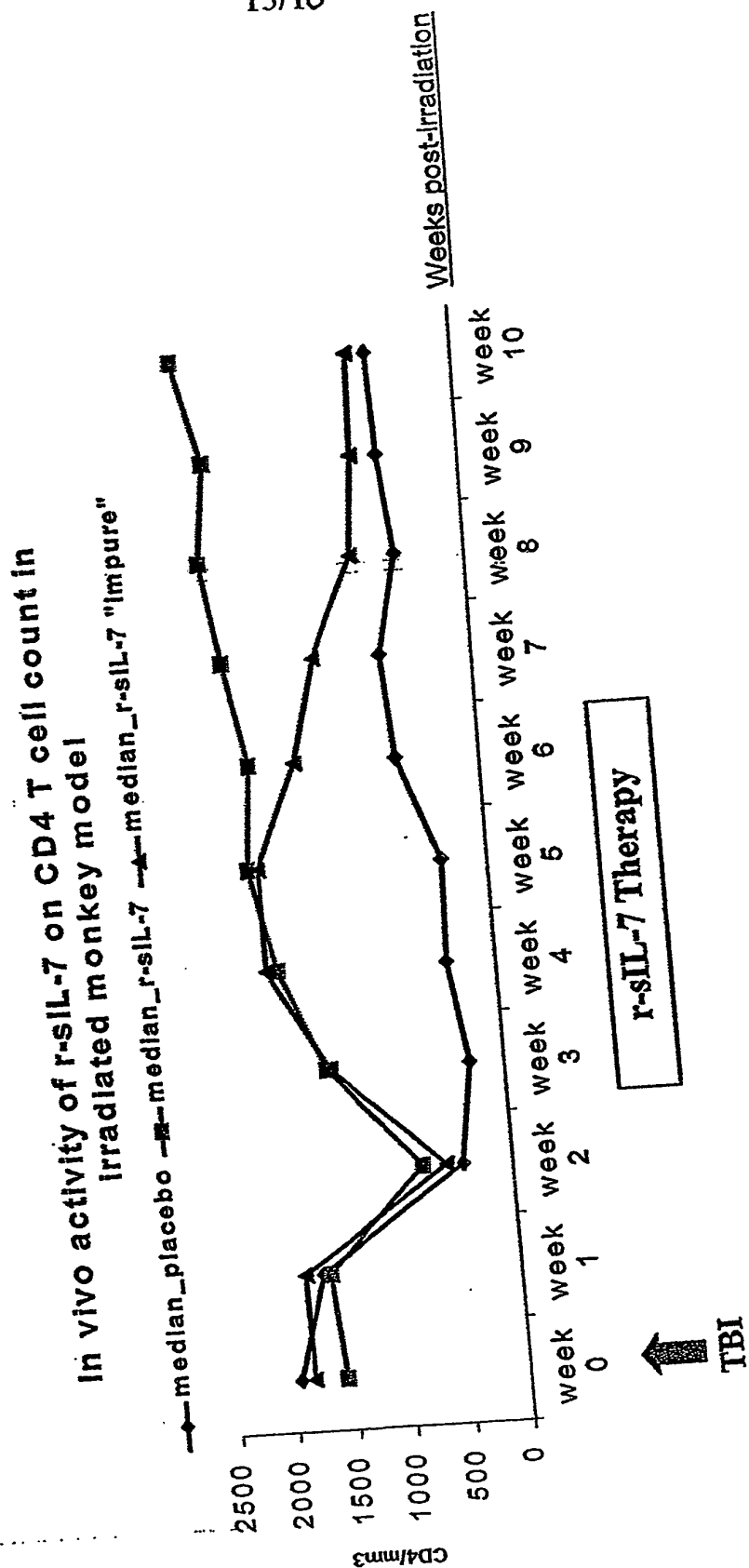


Figure 13

14/18

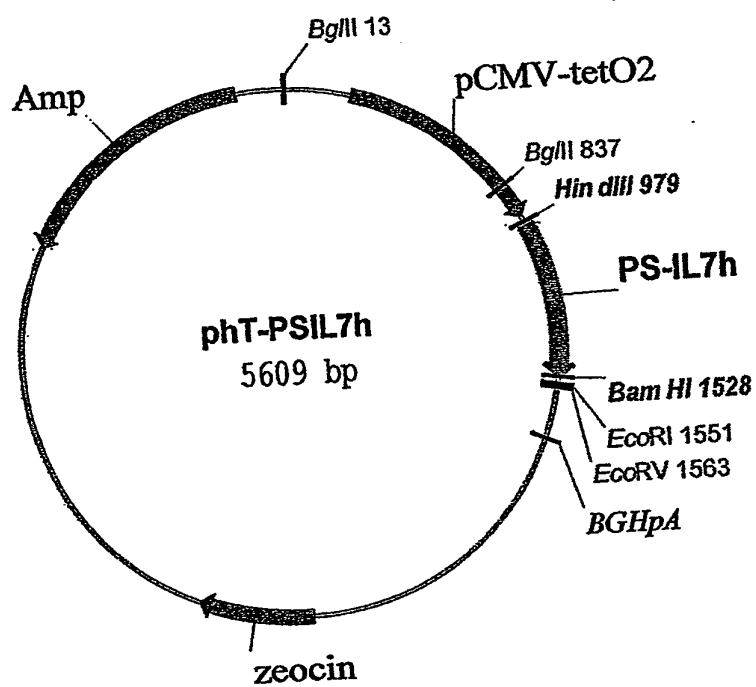


Figure 14

15/18

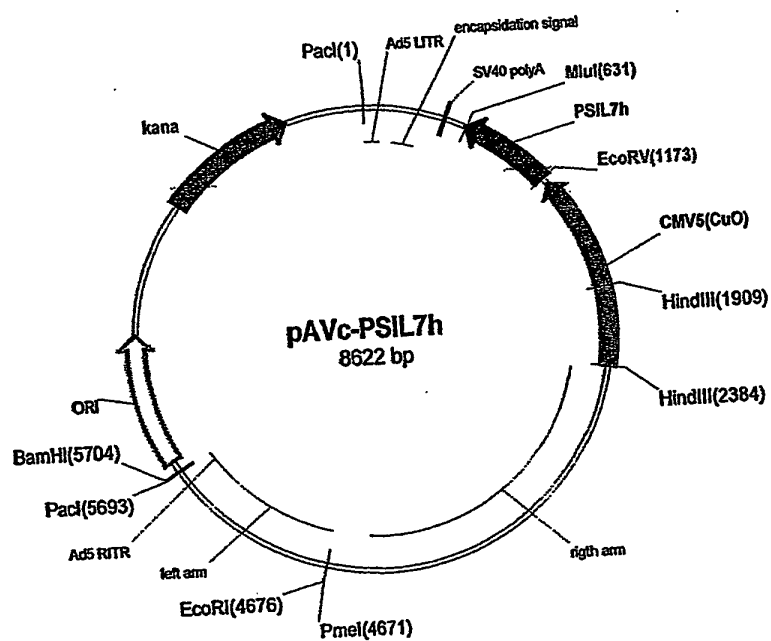


Figure 15

16/18

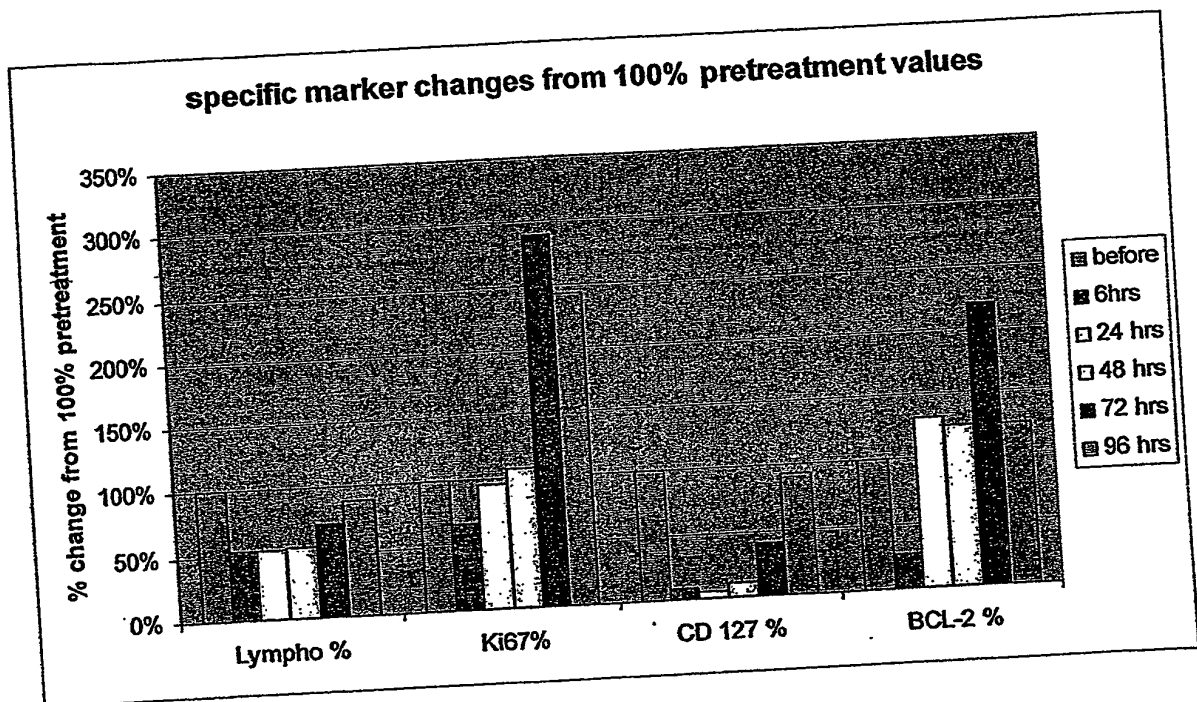


Figure 16

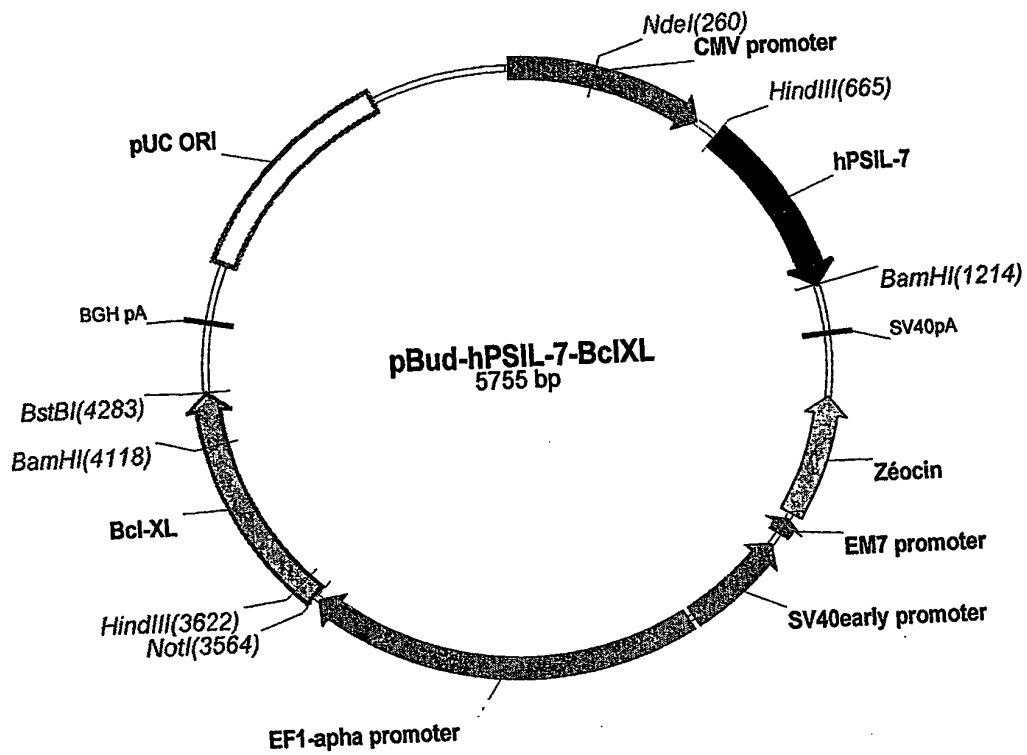
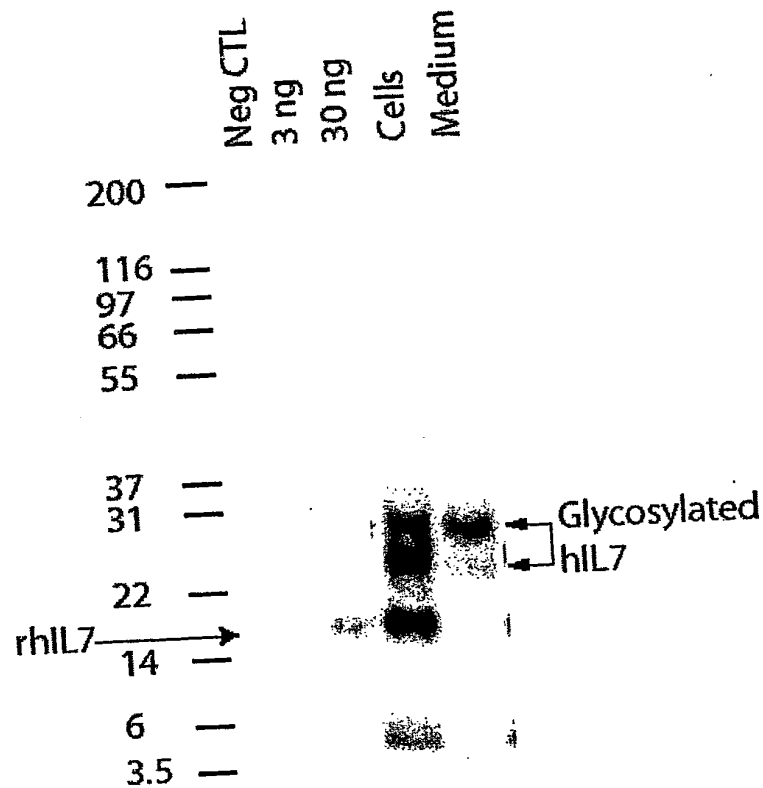


FIGURE 17

18/18

hIL7 expression in HEK293 cells by
transient transfection

rhIL7 = E.coli expressed hIL7
11.25 ul of samples loaded per lane
Cell extract = 300 ul total
Medium = 2 ml total

FIGURE 18